

Title (en)
Super encrypted storage and retrieval of media programs in a hard-paired receiver and storage device

Title (de)
Superverschlüsselte Speicherung und Rückgewinnung von Medienprogrammen in einem paarweisen Empfänger und einer Speichervorrichtung

Title (fr)
Stockage superchiffré et récupération des programmes audiovisuels d'un récepteur à pair et un dispositif de stockage

Publication
EP 1176826 B1 20090930 (EN)

Application
EP 01117554 A 20010720

Priority
US 62147600 A 20000721

Abstract (en)
[origin: EP1176826A2] A method and apparatus for storing and retrieving program material for subsequent replay is disclosed. The apparatus comprises a tuner (410), for receiving a data stream comprising encrypted access control information and the program material encrypted according to a first (CW) encryption key; the access control information including the first encryption key; a first encryption module (552), communicatively coupled to the tuner (410) and communicatively coupleable to a media storage device (524), for further encrypting the encrypted program material according to a second encryption key (514) and for encrypting the second encryption key (514) according to a third encryption key (518) to produce a fourth encryption key (520); a first decryption module (550) communicatively coupleable to the media storage device (524), for decrypting the fourth encryption key (520) retrieved from the media storage device (524) using the third encryption key (518) to produce the second encryption key (514), and for decrypting the further encrypted program material (510) retrieved from the media program device (524) to produce the encrypted program material (514); a conditional access module (406) communicatively coupled to the first decryption module (552), for decrypting the encrypted access control information to produce the first (CW) encryption key; and a second decryption module (540), for decrypting the program material using the first (CW) encryption key. <IMAGE>

IPC 8 full level
H04N 5/92 (2006.01); **G06F 21/10** (2013.01); **H04L 9/08** (2006.01); **H04L 9/14** (2006.01); **H04N 5/76** (2006.01); **H04N 5/91** (2006.01); **H04N 7/16** (2011.01); **H04N 7/167** (2011.01); **H04N 7/173** (2011.01); **H04N 21/4147** (2011.01); **H04N 21/418** (2011.01); **H04N 21/433** (2011.01); **H04N 21/4367** (2011.01); **H04N 21/4408** (2011.01); **H04N 21/472** (2011.01); **H04N 5/783** (2006.01); **H04N 9/804** (2006.01); **H04N 9/82** (2006.01)

CPC (source: EP US)
H04N 5/76 (2013.01 - EP US); **H04N 7/163** (2013.01 - EP US); **H04N 7/1675** (2013.01 - EP US); **H04N 7/17327** (2013.01 - EP US); **H04N 21/4147** (2013.01 - EP US); **H04N 21/4331** (2013.01 - EP US); **H04N 21/4334** (2013.01 - EP US); **H04N 21/4367** (2013.01 - EP US); **H04N 21/47202** (2013.01 - EP US); **H04N 5/783** (2013.01 - EP US); **H04N 9/8042** (2013.01 - EP US); **H04N 9/8205** (2013.01 - EP US)

Cited by
EP1345436A3; CN100424660C; EP1345439A3; EP1365586A1; EP1345437A3; EP2735116A4; GB2378841A; GB2378841B; EP1345438A3; US8775319B2; CN106464950A; EP3130139A4; US9681204B2; US7437571B1; US7475259B1; US10977631B2; US10701422B2; US7457967B2; US8583922B2; US7594110B2; US7058803B2; US7275163B2; US9762965B2; US10299002B2; US10694254B2; US11057680B2; US11689769B2; US9609034B2; US9900652B2; US9967521B2; US9838281B2; US10791042B2; US11252062B2; US11296962B2; US11784898B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1176826 A2 20020130; **EP 1176826 A3 20030730**; **EP 1176826 B1 20090930**; AT E444651 T1 20091015; DE 60140029 D1 20091112; ES 2333773 T3 20100301; JP 2002111655 A 20020412; JP 4358463 B2 20091104; US 2007133795 A1 20070614; US 7203311 B1 20070410; US 7480381 B2 20090120

DOCDB simple family (application)
EP 01117554 A 20010720; AT 01117554 T 20010720; DE 60140029 T 20010720; ES 01117554 T 20010720; JP 2001222222 A 20010723; US 62147600 A 20000721; US 70180007 A 20070202